

CEM-REZ

Smooth Texture Finish



APPLICATION INSTRUCTIONS: CEM-REZ SMOOTH TEXTURE FINISH

MOISTURE VAPOR EMISSION TESTING

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride moisture testing should be conducted according to ASTM 1869-04.

SURFACE PREPARATION

Surface must be clean, dry and profiled prior to installation of primer. Acceptable methods for preparation are shot blasting, diamond grinding or acid etching. If acid etching, follow APF written instructions. Concrete must have a minimum 5-10 mil profile.

APPLICATION OF PRIMER

Apply AP 2300 polymer to the prepared concrete at a rate of 250-300 sq. ft. per gallon. This application should be done with a low pressure pump-up sprayer. Spray AP 2300 liberally onto the substrate and then use a broom or deck brush to work out any puddles. **It is very important to not leave any puddles.** As soon as the primer is dry enough to walk on, you may begin installation of the overlay. **Overlay must be installed within 8 hours of the primer.**

APPLICATION OF BASE COAT / SCRATCH COAT

Mix two gallons of AP 2300 with one bag of Cem-Rez R. Once the material is mixed, immediately pour $\frac{1}{4}$ - $\frac{1}{2}$ of mix out in a ribbon across the area you will be working. It is recommended that you use the control joints in the concrete as stopping and starting points. This will make the application much more manageable.

Immediately begin spreading the material in a thin, even layer about 1/16 inch thick. This can be done with a seal-coat squeegee, magic trowel or hand trowel. Special care should be taken to avoid leaving excess material in the control joint because it will only need to be removed at a later point. It is important to never spread out all of the material you have on the floor. You want to keep a mound or pool of wet material and add new material on top of your existing mound. This will eliminate any visible tie-in marks. Failure to use this technique will result in a visible tie-in mark and possible high spots that will have to be removed once the material has cured.

Once your base coat has cured enough to walk on (typically 1-6 hours depending on curing conditions), do your detail work. This includes removing any high spots and ridges with a coarse rubbing stone and cleaning out all control joints of excess material. This can be done using a trowel turned on its corner while the material is still soft. If the material cures hard, it will be necessary to use a grinder to remove excess material from the joint. Once any imperfections have been removed, apply a second base/scratch coat in manner discussed above.

APPLICATION OF CEM-REZ M

Prior to installing Cem-Rez M, make sure the bond/scratch coat is completely free from dust and debris. Mix 1 – 1.25 gallons of AP 2300 polymer with one bag of Cem-Rez M. Once the material is mixed, immediately pour $\frac{1}{4}$ of the mix out in a ribbon across the area you will be working. It is recommended you use the control joints in the concrete as stopping and starting points. This will make the application much more manageable. Using a pool trowel or Magic trowel, immediately spread the material in an even, very thin layer less than a 1/32nd of an inch thick. You want to always keep a mound or pool of wet material and add new material on top of your existing mound. This will eliminate any visible tie-in marks. Failure to use this technique will result in a visible tie-in mark. If a smoother finish is desired, a second coat of Cem-Rez M may be applied as soon as the first coat is dry enough to walk on.

DETAILING & COLORING

Once the Cem-Rez M has cured overnight, remove high spots and sand the floor with a floor machine using 120-grit sanding screen. Using a diamond blade, re-open all control joints in the concrete. Failure to honor these moving joints can result in system failure. Prior to coloring, remove all dust and debris. This system may be colored using several different products and methods, including APF Color Fuse, Acid Stain and Cem-Dye (interior only). Contact your local APF representative to discuss your coloring options in detail. If you are using fiber tape or a stencil, it is recommended you pull them up prior to coloring. After coloring is complete, Cem-Seal pigmented may be used to color in the grout lines.

APPLICATION OF FINISH COATS

Once all the coloring is complete and the overlay is dry, you may apply your favorite APF sealer system. If you are unsure which sealer system is right for you, contact one of our technical representatives.